

Sanchem Inc.

NO-OX-ID A-SPECIAL

Electrical Grade

A RoHS Compliant coating for electrical installation

NO-OX-ID is designed to be used on electrical contacts between metal surfaces, especially between dissimilar metals that can be rapidly compromised in the presence of oxygen, water, salts, pollutants, and other oxidizing agents.

NO-OX-ID "A-SPECIAL" is the electrical contact compound of choice in new RoHS Compliant electrical installations and maintenance because of its excellent performance in keeping metals free from corrosion. This electrical compound has been used for over 65 years to prevent corrosion in electrical connectors from low micro-power electronics to high voltage switchgear. This conductive compound prevents the formation of oxides, sulfides and other corrosion deposits on copper and aluminum surfaces and conductors can be prevented with its use.



NO-OX-ID A-Special 'Electrical Grade' 1 Ltr Jar



NO-OX-ID A-Special 'Electrical Grade' 100g tube

The purpose of a electrical contact compound is to prevent corrosion and lubricate the connection for easier maintenance. NO-OX-ID "A-Special" electrical grade prevents corrosion attack on all metal surfaces. Attack can come from battery acid, salt, moisture and various industrial chemical vapors in the environment. When this conductive paste is used on aluminum connectors in joints, NO-OX-ID "A-Special" prevents the reformation of oxide films, which cause high resistance and subsequent failures.

NO-OX-ID A-Special conductive compound is recommended by connector manufacturers for Trouble-free joint connections. When nuts, mounting bolts, and cotter keys are coated with NO-OX-ID "A-Special", they will never rust or freeze assuring you easy, trouble-free removal. NO-OX-ID "A-Special" should be used wherever the formation of a corrosive product will affect the proper functioning of the metal surface. This electrical contact compound is easily applied, easily removed, and gives long lasting reliable performance even on dissimilar metals.

WHY DON'T YOU KNOW ABOUT NO-OX-ID

NO-OX-ID is the best-kept secret in the electrical industry and it has essential applications in the automotive, railway, communication, trucking and defence world too. It is an anti-oxidation compound that electricians use on electrical connections, as well as conduit connections, and other places where copper and/or aluminum join, which are exposed to the elements and need lasting protection.

NO-OX-ID A-Special prevents corrosion and keeps resistance in the connection low which translates directly into a cooler more efficient and reliable connection, especially in high current applications like your battery posts, alternator terminals, earthing bonds, high current power systems, lamp connectors, headlight/driving light wiring connectors, high watt stereos, winches, etc., which means cool and corrode free connection for brighter lights, louder stereo, even longer winching times, because you are not wasting power through a poor connector.



APPLICATION NO-OX-ID "A-Special" is applied as it comes from the tube or container, using a brush or rag. NO-OX-ID "A-Special" should be rubbed onto the metal connection surface thoroughly to absorb all moisture and to insure coverage of all irregularities on the surface. Coating thickness depends on the extent to which areas are exposed to the corrosive influence.

SPECIFIC USES

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|----------------------|----------------------|------------------------|
| • Aerial cable | • Lamp Connectors | • Steel poles |
| • Aluminum cable | • Contact points | • Switchgear |
| • Anchor rods | • Electrical conduit | • Temper screws |
| • Battery holders | • Guy wires | • Threaded connections |
| • Battery terminals | • High line towers | • Transformer Bases |
| • Battery posts | • Insulators | • Turn buckles |
| • Boot jack contacts | • Junction boxes | • Wires lugs |
| • Bolted connections | • Surge arrestors | • Circuit Breaker |
| • Brackets | • Transformers | • Switches |
| • Bus Bar systems | • Switchgears | • Draw out breakers |
| • Cables & clamps | • Circuit breakers | |

RAILWAY, AUTOMOTIVE AND MARINE ELECTRICAL SYSTEM MAINTENANCE

- Apply a thin coat of this electrically conductive compound to mini-lamp bases before inserting into sockets.
- Apply to base of lamp socket and lens contact area.
- Apply to all electrical conduit connections by packing the end of the tubing and nut before connecting to box connection.
- Apply to all wire terminal connections and wire splice connections. Dip the spade or ring into the NO-OX-ID
- Apply to all electrical junction box connections or terminal posts in light system, starter cable connections, alternator terminal connections, battery posts connectors and ground connections.
- Apply a thin coat of this electrically conductive compound to 7-way trailer plug connections and VW cable connector.



- Use NO-OX-ID A-Special as battery terminal compound to prevent battery corrosion for your car battery, loco and coaches, electrical maintenance and marine battery maintenance. For battery connections coat the post, screw, clamp, terminal liberally with NO-OX-ID. A little NO-OX-ID goes a long way!

SPECIFIC ALUMINUM CABLE APPLICATION When splicing aluminum cable with compression-type connectors, brush NO-OX-ID A-Special to the inside surfaces of the connector. Using a wire brush, brush these inside surfaces through the through the A-Special coating. This roughs up the surface assuring positive contact. At the same time the NO-OX-ID A-Special is providing protection against the oxide film that can occur in the short space of time between roughing up the surface and final connection. Apply a thin coat of NO-OX-ID A-Special to cable ends to complete the splice to prevent aluminum rust.

NO-OX-ID A-Special is your coating of choice for Battery Terminal Connections. NO-OX-ID is not simple compound or petroleum jelly that can be washed off and breakdown in the presence of water or acid or melt even on room temperature due to lower melting point, **NO-OX-ID A-Special** is a moisture and corrosion resistant rust preventive compound having high melting point and stay in position for protection of connection.

Why should you use NO-OX-ID A-Special on your battery terminals? NO-OX-ID prevents the premature death of your battery by preventing the white corrosion material from forming on the posts. When this white corrosion appears on your battery terminals it exponentially reduces the charge to the battery and from the battery to your engine. This excessive corrosion resistance formation will shorten your battery life. To insure good starts throughout the year, the condition of your battery posts (keeping them free of corrosion) is as important as changing your cars oil.

Battery corrosion is a serious business, which is why most major industrial companies recommend the use of NO-OX-ID on backup battery systems and critical electrical connections. Industrial battery companies prefer NO-OX-ID for field applications because they cannot afford to replace a battery cells due to overheating and failure due to corrosion and neither can you!

Battery terminal application of NO-OX-ID A-Special:

- Disconnect the connector from the terminal. When taking the battery out first disconnect the negative terminal (-), then disconnect the positive (+).
- De compound the terminal post.
- Neutralize the area – this is normally done with baking soda & water (1 lb/ 1 gal.)
- Use a toothpick size steel wire brush to buff the face of the terminal post until the face is bright lead.
- Next, apply a light coating of NO-OX-ID A-Special to all four faces of the terminal post.
- Reattach the cables to the battery. When reattaching the battery, first connect the positive (+) connection then reattach the negative terminal (-).

Stereo enthusiasts and hobbyists love NO-OX-ID... BECAUSE IT WORKS!

How they use NO-OX-ID A-Special: "The mating surfaces of the connection shall be burnished to a bright metallic finish and coated with a thin layer of NO-OX-ID anticorrosion paste to ...

- NO-OX-ID A-Special works absolute wonders on audio connections, especially on those pesky RCA connectors that tend to corrode on the inner surfaces of the ground shell, 1/4 phone and even USB connectors
- Telephones – The telephone company has been using NO-OX-ID for seventy years. I have seen fifty-year-old NO-OX-ID on connectors that I've disassembled and the stuff is still goopy and the connections are still bright and shiny as the day they were made.
- Tinning stranded wires destined for mechanical compression-type connectors defeats the purpose of the mechanical compression. When you insert a set of bare copper wires that are clean and protected with stuff like NO-OX-ID into a speaker thread-type compression connector, the resultant force of the compression on all the strands is what makes a good connection.
- A quote from a Bell Systems manual on making a connection: "The mating surfaces of the connection shall be burnished to a bright metallic finish and coated with a thin layer of NO-OX-ID anticorrosion paste to preserve continuity indefinitely."



- One public utility states on its purchase orders: This material is used in making aluminum to aluminum connections on outdoor High-Voltage Switchgear. PSO has tested dozens of joint compounds and none are equal to the SANCHEM NO-OX-ID. Please procure this brand!
- NO-OX-ID is a great product a must for any grounding application.
- One major engineering company recommends the use of NO-OX-ID on Track & Positioning pins on 480 volt draw out breakers (Circuit Breakers).
- Electronics AF and RF - Electronics, both AF and RF, have been my employer and hobby since 1963. NO-OX-ID preserves the conductive finish. I use it on all AF and low frequency (Below 30MHz) RF connectors and have never had a glitch because of its presence. The ideal amount of NO-OX-ID to use is one molecule thick. No gobs. If a person takes care to wipe off excess with a clean paper towel the residue, barely seen, even, is plenty enough to forestall corrosion. I even use the stuff on gold-plated edge connectors on circuit cards. I own an old Yamaha DSP-A100 integrated 5.1 rig that Circuit City sold for \$50.00 because after it sat around being demo'd the interior flat ribbon cable connections corroded and the amp lost its snot, so to speak. It took fifty hours of repairs, taking it completely apart and burnishing the non-soldered connections, but it worked. (I attended the Panasonic Technical schools for Digital Electronic, Broadcast and Computer Repair and that's where I learned of the built-in obsolescence that non-soldered connections afford.) Even the expensive microprocessor chips that plug in to receptacles decline in conductivity over time, except when protected by NO-OX-ID, so as soon as I purchase a piece of equipment I yank it apart and goop up the non-solderables 'cause I know they're ticking bombs.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid. waxy solid
Physical state:	Colorless. to brown
Color Odor:	Hydrocarbon
Melting point:	>150°F / 66°C
Boiling point:	> 450 F / 232 °C
Flash point:	Open cup: >200°C (>392°F) [Cleveland]
Vapor pressure:	<0.0013 kPa (<0.01 mm Hg) [room temperature]
Auto-ignition temperature:	> 554 °F (290 °C)
Viscosity : Kinematic (40°C):	>0.25 cm ² /s (>25 cSt)
Flash Point (COC) ASTM D-92:	250 F min
Congeaing Point ASTM D-938:	125-160
Penetration ASTM D-937:	140-195
Salt Spray 20 mils:	10+ years

NO-OX-ID has been preventing corrosion since 1918.



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